

Serial number: 09/966,453

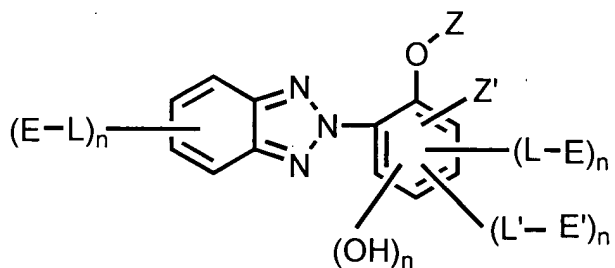
LISTING OF CLAIMS

Claim 1	currently amended
Claim 2	original
Claim 3	original
Claim 4	original
Claim 5	original
Claim 6	original
Claim 7	original
Claim 8	original
Claim 9	original

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TEXT OF CLAIMS CURRENTLY UNDER EXAMINATION

1. A benzotriazole adduct having the structure:



in which

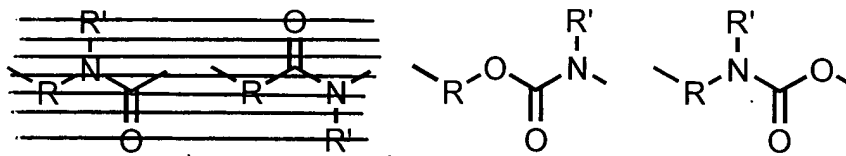
$n$  is 0, 1, 2, or 3;

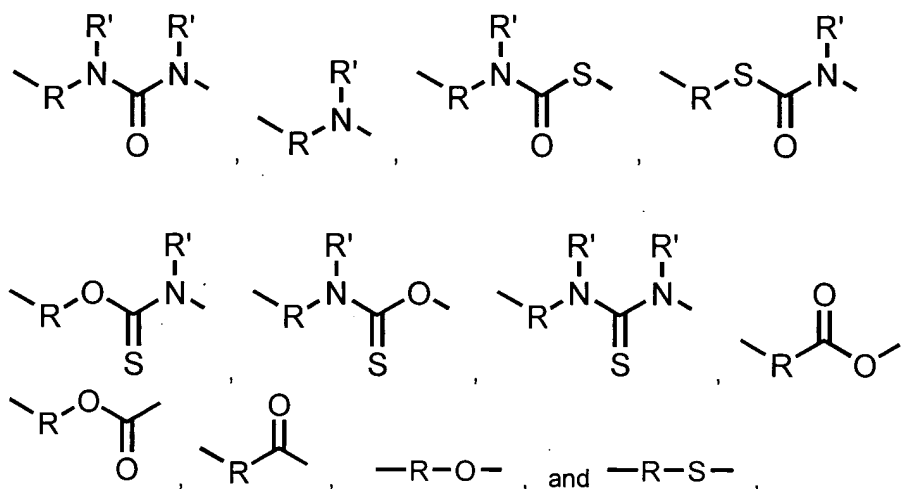
$E$  and  $E'$  independently are an organic moiety containing electron donor, epoxy, acetyl acetate, or electron acceptor excluding acrylate, functionality;

$Z$  is hydrogen, hydrocarbyl, or an organic moiety containing electron donor, epoxy, acetyl acetate, or electron acceptor excluding acrylate, functionality;

$Z'$  is hydrogen, hydrocarbyl, an electron donating group, or an electron withdrawing group,

$L$  and  $L'$  independently are a direct bond, a hydrocarbyl group, or a functionality selected from the group consisting of .





in which R is a direct bond or a hydrocarbyl group attached to the benzotriazole segment; and R' is hydrogen, an aromatic, or an alkyl group of 1 to 6 carbon atoms, and

provided that if n is 0 for each of (E - L), (L - E), or (L' - E'), then Z is not hydrogen or alkyl; and

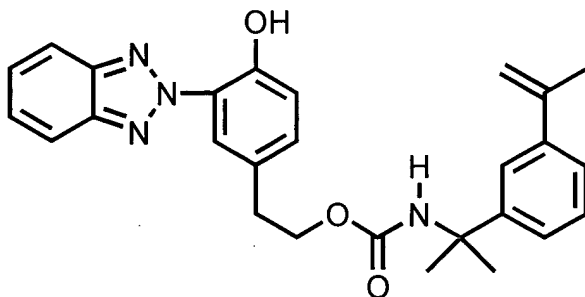
provided that if L or L' is a direct bond, or L or L' is alkyl and E is a maleimide or a styrene group, then for (L-E) or (L' - E'), n must be more than 1, or for (E-L), n must be at least one.

2. The benzotriazole adduct according to claim 1 in which n is 0 for (E - L), (L' - E') and for (OH), Z is hydrogen, Z' is hydrogen; n is 1 for (L - E); and L is not a direct bond or alkyl.

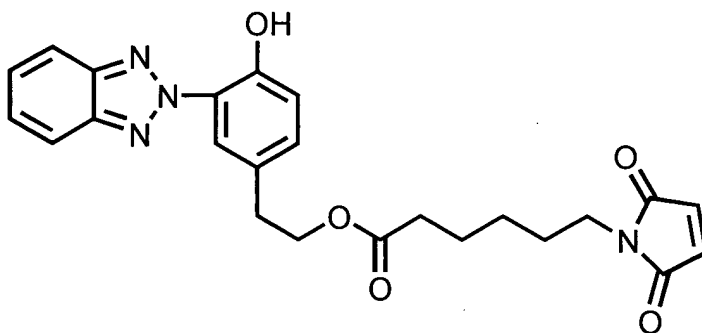
3. The benzotriazole adduct according to claim 1 in which n is 0 for (E - L), (L' - E'), and for (OH), n is 1 for (L - E), L is not a direct bond or alkyl, Z is an organic moiety containing electron donor, epoxy, vinyl, acetyl acetate, or electron acceptor excluding acrylate, functionality; and Z' is hydrogen.

4. The benzotriazole adduct according to claim 1 in which n is 0 for (E – L) and (L' – E'), n is 2 for (L – E), Z is hydrogen; and Z' is hydrogen.

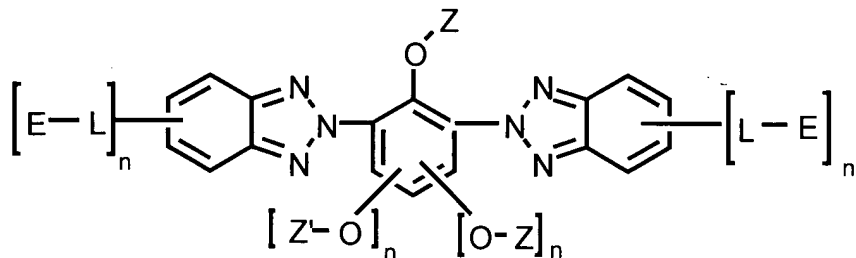
5. The benzotriazole adduct according to claim 1 having the structure:



6. The benzotriazole adduct according to claim 1 having the structure:



7. A benzotriazole adduct having the structure:



in which

n is 0, 1, 2, or 3;

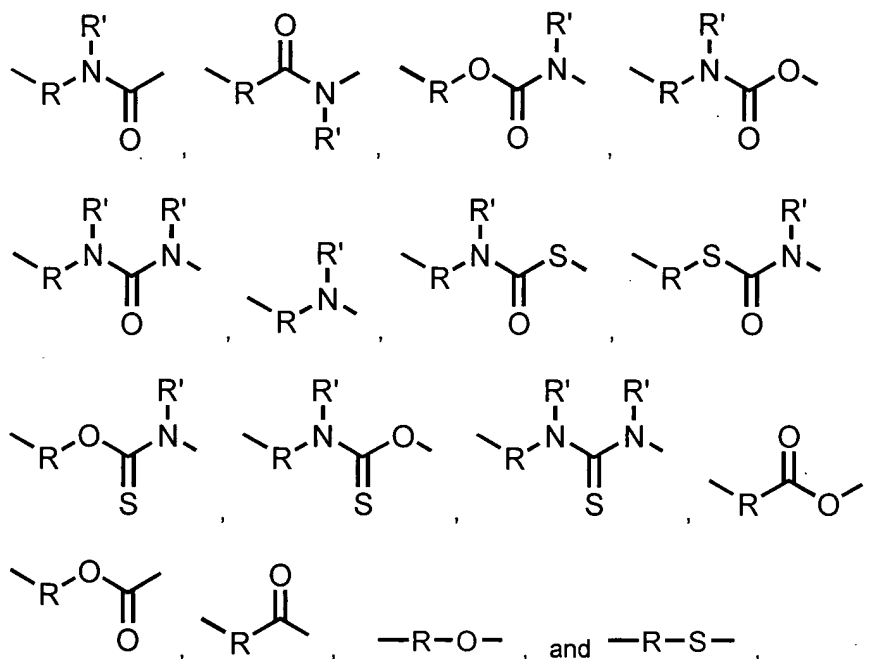
E and E' independently are an organic moiety containing electron donor, epoxy, acetyl acetate, or electron acceptor excluding acrylate, functionality;

Z is hydrogen, hydrocarbyl, or an organic moiety containing electron donor, epoxy, acetyl acetate, or electron acceptor excluding acrylate, functionality;

Z' is hydrogen, hydrocarbyl, an electron donating group, or an electron withdrawing group,

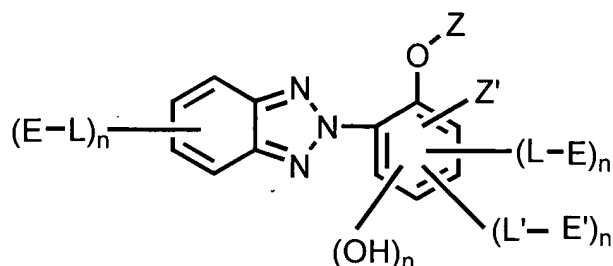
at least one of Z and Z' cannot be hydrogen or alkyl;

L and L' independently are a direct bond, a hydrocarbyl group, or a functionality selected from the group consisting of .



in which in which R is a direct bond or a hydrocarbyl group attached to the benzotriazole segment; and R' is hydrogen, an aromatic, or an alkyl group of 1 to 6 carbon atoms.

8. A curable composition comprising a benzotriazole adduct, optionally a curing agent, and optionally a filler, the benzotriazole adduct having the structure



in which

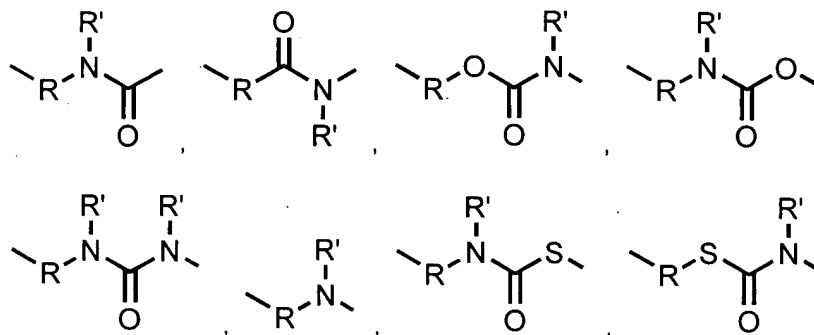
$n$  is 0, 1, 2, or 3;

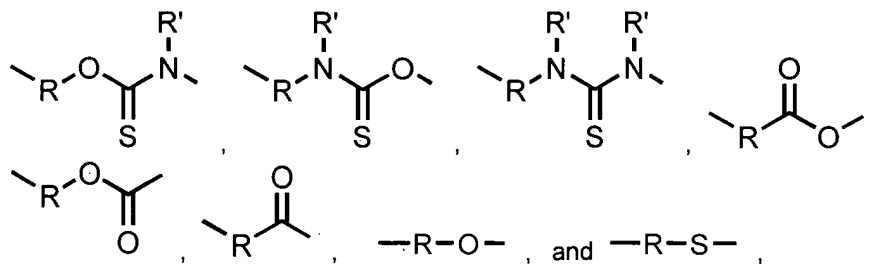
$E$  and  $E'$  independently are an organic moiety containing electron donor, electron acceptor, epoxy, vinyl, acetyl acetate, (meth)acrylate, (meth)acryl amino, glycidyl, or siloxane functionality;

$Z$  is hydrogen, hydrocarbyl, or an organic moiety containing electron donor, epoxy, vinyl, acetyl acetate, (meth)acrylate, (meth)acryl amino, glycidyl, or siloxane functionality;

$Z'$  is hydrogen, hydrocarbyl, an electron donating group, or an electron withdrawing group,

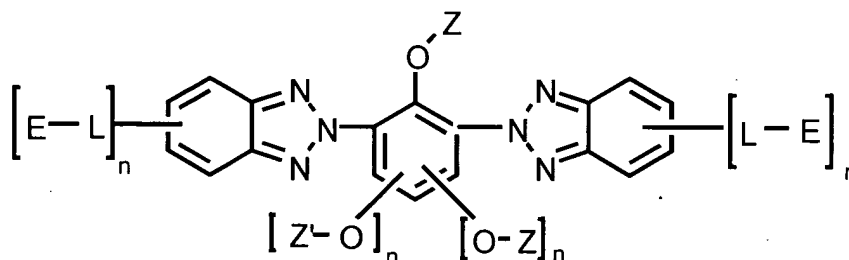
$L$  and  $L'$  independently are a direct bond, a hydrocarbyl group, or a functionality selected from the group consisting of





in which R is a direct bond or a hydrocarbyl group attached to the benzotriazole segment; and R' is hydrogen, an aromatic, or an alkyl group of 1 to 6 carbon atoms.

9. A curable composition comprising a benzotriazole adduct, optionally a curing agent, and optionally a filler, the benzotriazole adduct having the structure



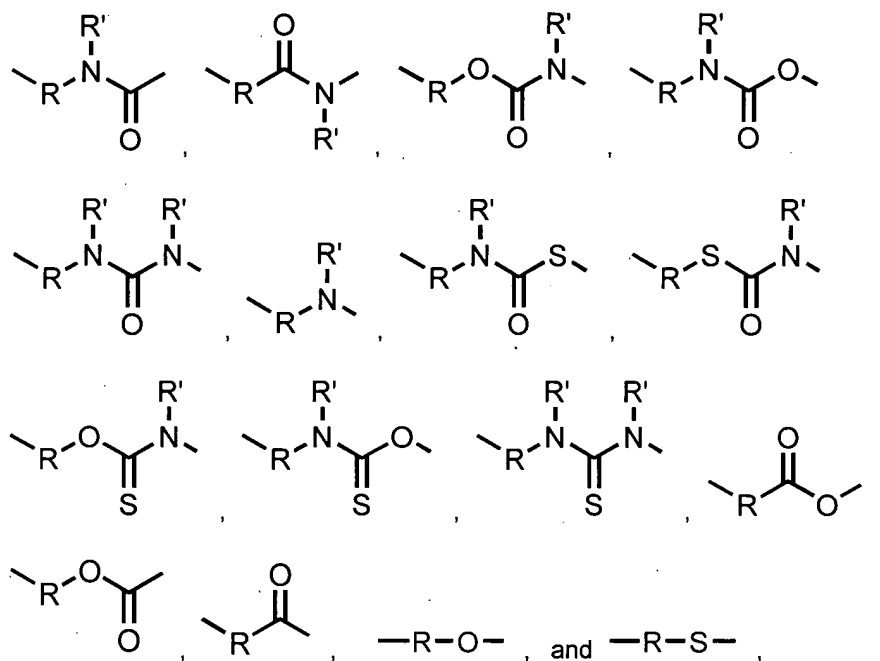
in which

E and E' independently are an organic moiety containing electron donor, electron acceptor, epoxy, vinyl, acetyl acetate, (meth)acrylate, (meth)acryl amino, glycidyl, or siloxane functionality;

Z is hydrogen, hydrocarbyl, or an organic moiety containing electron donor, electron acceptor, epoxy, vinyl, acetyl acetate, (meth)acrylate, (meth)acryl amino, glycidyl, or siloxane functionality;

Z' is hydrogen, hydrocarbyl, an electron donating group, or an electron withdrawing group,

L and L' independently are a direct bond, a hydrocarbyl group, or a functionality selected from the group consisting of .



in which R is a direct bond or a hydrocarbyl group attached to the benzotriazole segment; and R' is hydrogen, an aromatic, or an alkyl group of 1 to 6 carbon atoms.